Toshiaki Yoshioka

List of Publications by Year
in descending order

267	6,903	66234	114278
papers	citations	42 h-index	63 g-index

269	269	269	4886
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydrogen production from biomass and plastic mixtures by pyrolysis-gasification. International Journal of Hydrogen Energy, 2014, 39, 10883-10891.	3.8	210
2	Kinetics of Hydrolysis of Poly(ethylene terephthalate) Powder in Sulfuric Acid by a Modified Shrinking-Core Model. Industrial & Engineering Chemistry Research, 2001, 40, 75-79.	1.8	181
3	Hydrolysis of waste PET by sulfuric acid at 150Â°C for a chemical recycling. Journal of Applied Polymer Science, 1994, 52, 1353-1355.	1.3	161
4	New insights into the capture performance and mechanism of hazardous metals Cr3+ and Cd2+ onto an effective layered double hydroxide based material. Journal of Hazardous Materials, 2022, 426, 128062.	6.5	155
5	Pyrolysis of poly(ethylene terephthalate) in a fluidised bed plant. Polymer Degradation and Stability, 2004, 86, 499-504.	2.7	154
6	Kinetics of Hydrolysis of PET Powder in Nitric Acid by a Modified Shrinking-Core Model. Industrial & Engineering Chemistry Research, 1998, 37, 336-340.	1.8	146
7	Low-temperature catalytic upgrading of waste polyolefinic plastics into liquid fuels and waxes. Applied Catalysis B: Environmental, 2021, 285, 119805.	10.8	137
8	Pyrolysis of tetrabromobisphenol-A containing paper laminated printed circuit boards. Chemosphere, 2008, 71, 872-878.	4.2	121
9	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PETâ€”Part I: Production and physical properties. Fuel, 2018, 221, 346-360.	3.4	106
10	Novel Niâ€“Mgâ€“Alâ€“Ca catalyst for enhanced hydrogen production for the pyrolysisâ€–gasification of a biomass/plastic mixture. Journal of Analytical and Applied Pyrolysis, 2015, 113, 15-21.	2.6	101
11	Recovery of indium from In2O3 and liquid crystal display powder via a chloride volatilization process using polyvinyl chloride. Thermochimica Acta, 2009, 493, 105-108.	1.2	97
12	Uptake of heavy metal ions from aqueous solution using Mgâ€“Al layered double hydroxides intercalated with citrate, malate, and tartrate. Separation and Purification Technology, 2008, 62, 330-336.	3.9	80
13	New method of treating dilute mineral acids using magnesiumâ€–aluminum oxide. Water Research, 2003, 37, 1545-1550.	5.3	71
14	Dechlorination of poly(vinyl chloride) using NaOH in ethylene glycol under atmospheric pressure. Polymer Degradation and Stability, 2008, 93, 1138-1141.	2.7	69
15	Chemical modification of poly(vinyl chloride) by nucleophilic substitution. Polymer Degradation and Stability, 2009, 94, 107-112.	2.7	69
16	Interactions of beech woodâ€–polyethylene mixtures during co-pyrolysis. Journal of Analytical and Applied Pyrolysis, 2016, 122, 531-540.	2.6	65
17	Thermal decomposition of individual and mixed plastics in the presence of CaO or Ca(OH)2. Journal of Analytical and Applied Pyrolysis, 2015, 113, 584-590.	2.6	64
18	Effects of metal oxides on the pyrolysis of poly(ethylene terephthalate). Journal of Analytical and Applied Pyrolysis, 2005, 73, 139-144.	2.6	62

#	Article	IF	Citations
19	Recyclable Mgâ€“Al layered double hydroxides for fluoride removal: Kinetic and equilibrium studies. Journal of Hazardous Materials, 2015, 300, 475-482.	6.5	62
20	Pyrolytic hydrolysis of polycarbonate in the presence of earth-alkali oxides and hydroxides. Polymer Degradation and Stability, 2009, 94, 1119-1124.	2.7	61
21	Feedstock Recycling <i>via</i> Waste Plastic Pyrolysis. Journal of the Japan Petroleum Institute, 2016, 59, 243-253.	0.4	61
22	Dechlorination behaviour of flexible poly(vinyl chloride) in NaOH/EG solution. Polymer Degradation and Stability, 2008, 93, 1822-1825.	2.7	58
23	Feedstock recycling of waste polymeric material. Journal of Material Cycles and Waste Management, 2011, 13, 265-282.	1.6	58
24	New Treatment Methods for Waste Water Containing Chloride Ion Using Magnesiumâ€“Aluminum Oxide. Chemistry Letters, 2000, 29, 1136-1137.	0.7	57
25	Aromatic hydrocarbon selectivity as a function of CaO basicity and aging during CaO-catalyzed PET pyrolysis using tandem Âµ-reactor-GC/MS. Chemical Engineering Journal, 2018, 332, 169-173.	6.6	57
26	Kinetic studies of the decomposition of flame retardant containing high-impact polystyrene. Polymer Degradation and Stability, 2010, 95, 1129-1137.	2.7	54
27	Preparation of Mgâ€“Al layered double hydroxide doped with Fe2+ and its application to Cr(VI) removal. Separation and Purification Technology, 2014, 122, 12-16.	3.9	54
28	Enhancement of bio-oil production via pyrolysis of wood biomass by pretreatment with H 2 SO 4. Bioresource Technology, 2015, 178, 76-82.	4.8	53
29	New Treatment Method for Dilute Hydrochloric Acid Using Magnesium-Aluminum Oxide. Bulletin of the Chemical Society of Japan, 2002, 75, 595-599.	2.0	49
30	A novel method to delaminate nitrate-intercalated Mg Al layered double hydroxides in water and application in heavy metals removal from waste water. Chemosphere, 2018, 203, 281-290.	4.2	49
31	Effect of temperature management on the hydrolytic degradation of PET in a calcium oxide filled tube reactor. Chemical Engineering Journal, 2011, 166, 523-528.	6.6	47
32	Strategy for separation and treatment of disaster waste: a manual for earthquake and tsunami disaster waste management in Japan. Journal of Material Cycles and Waste Management, 2013, 15, 290-299.	1.6	47
33	Thermal decomposition of tetrabromobisphenol-A containing printed circuit boards in the presence of calcium hydroxide. Journal of Material Cycles and Waste Management, 2017, 19, 282-293.	1.6	47
34	TGâ€“MS investigation of brominated products from the degradation of brominated flame retardants in high-impact polystyrene. Chemosphere, 2011, 85, 368-373.	4.2	46
35	Kinetic and equilibrium studies of urea adsorption onto activated carbon: Adsorption mechanism. Journal of Dispersion Science and Technology, 2017, 38, 1063-1066.	1.3	46
36	Elimination behavior of nitrogen oxides from a NO3â¯-intercalated Mgâ€“Al layered double hydroxide during thermal decomposition. Thermochimica Acta, 2010, 499, 106-110.	1.2	45

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37	Pyrolysis of Mixed Plastics in a Fluidized Bed of Hard Burnt Lime. Industrial & Engineering Chemistry Research, 2011, 50, 5459-5466.	1.8	45
38	Removal of antimonate ions from an aqueous solution by anion exchange with magnesiumâ€“aluminum layered double hydroxide and the formation of a brandholzite-like structure. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1146-1151.	0.9	45
39	Adsorption of urea, creatinine, and uric acid onto spherical activated carbon. Separation and Purification Technology, 2020, 237, 116367.	3.9	45
40	Pyrolysis gases produced from individual and mixed PE, PP, PS, PVC, and PETâ€”Part II: Fuel characteristics. Fuel, 2018, 221, 361-373.	3.4	44
41	Causticization of sodium carbonate with rockâ€salt type magnesium aluminium oxide formed by the thermal decomposition of hydrotalciteâ€like layered double hydroxide. Journal of Chemical Technology and Biotechnology, 1993, 57, 137-140.	1.6	43
42	Steam Hydrolysis of Poly(bisphenol A carbonate) in a Fluidized Bed Reactor. Industrial & Engineering Chemistry Research, 2014, 53, 4215-4223.	1.8	43
43	Effects of hard- and soft-segment composition on pyrolysis characteristics of MDI, BD, and PTMG-based polyurethane elastomers. Journal of Analytical and Applied Pyrolysis, 2017, 126, 337-345.	2.6	43
44	Analysis of Two Stages Dehydrochlorination of Poly(vinyl chloride) Using TG-MS. Chemistry Letters, 2000, 29, 322-323.	0.7	42
45	Solubility parameters for determining optimal solvents for separating PVC from PVC-coated PET fibers. Journal of Material Cycles and Waste Management, 2017, 19, 612-622.	1.6	42
46	Chemical recycling of rigid-PVC by oxygen oxidation in NaOH solutions at elevated temperatures. Polymer Degradation and Stability, 2000, 67, 285-290.	2.7	41
47	Hybrid inorganic/organic composites of Mgâ€“Al layered double hydroxides intercalated with citrate, malate, and tartrate prepared by co-precipitation. Materials Research Bulletin, 2009, 44, 840-845.	2.7	41
48	Replacing conventional fuels in USA, Europe, and UK with plastic pyrolysis gases â€“ Part I: Experiments and graphical interchangeability methods. Energy Conversion and Management, 2016, 126, 1118-1127.	4.4	41
49	The removal of chloride from solutions with various cations using magnesiumâ€“aluminum oxide. Separation and Purification Technology, 2005, 42, 25-29.	3.9	40
50	Chemical modification of rigid poly(vinyl chloride) by the substitution with nucleophiles. Journal of Applied Polymer Science, 2010, 116, 36-44.	1.3	40
51	Photocatalytic properties of CdS and CdSâ€”ZnS mixtures incorporated into the interlayer of layered compounds. Journal of Chemical Technology and Biotechnology, 1993, 58, 315-319.	1.6	39
52	Kinetics of uptake of Cu2+ and Cd2+ by Mgâ€“Al layered double hydroxides intercalated with citrate, malate, and tartrate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 355, 172-177.	2.3	39
53	Treatment of hydrochloric acid with magnesiumâ€“aluminum oxide at ambient temperatures. Separation and Purification Technology, 2006, 51, 272-276.	3.9	38
54	Uptake of Sc3+ and La3+ from aqueous solution using ethylenediaminetetraacetate-intercalated Cuâ€“Al layered double hydroxide reconstructed from Cuâ€“Al oxide. Solid State Sciences, 2011, 13, 366-371.	1.5	38

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55	Antibacterial effect of thiocyanate substituted poly(vinyl chloride). Journal of Polymer Research, 2011, 18, 945-947.	1.2	38
56	High-value products from the catalytic hydrolysis of polycarbonate waste. Polymer Journal, 2010, 42, 438-442.	1.3	37
57	Equilibrium and kinetics studies on As(V) and Sb(V) removal by Fe2+-doped Mgâ€“Al layered double hydroxides. Journal of Environmental Management, 2015, 151, 303-309.	3.8	37
58	Catalytic Pyrolysis of Poly(ethylene terephthalate) in the Presence of Metal Oxides for Aromatic Hydrocarbon Recovery Using Tandem Î¼-Reactor-GC/MS. Energy & Fuels, 2020, 34, 2492-2500.	2.5	37
59	Chemical Recycling of Polycarbonate to Raw Materials by Thermal Decomposition with Calcium Hydroxide/Steam. Chemistry Letters, 2005, 34, 282-283.	0.7	36
60	Basic study on the determination of total boron by conversion to tetrafluoroborate ion (BF4â^') followed by ion chromatography. Analytica Chimica Acta, 2006, 570, 65-72.	2.6	36
61	Removal of HCl, SO2, and NO by treatment of acid gas with Mgâ€“Al oxide slurry. Chemosphere, 2011, 82, 587-591.	4.2	36
62	Removal of boron and fluoride in wastewater using Mg-Al layered double hydroxide and Mg-Al oxide. Journal of Environmental Management, 2017, 188, 58-63.	3.8	36
63	New treatment method for boron in aqueous solutions using Mgâ€“Al layered double hydroxide: Kinetics and equilibrium studies. Journal of Hazardous Materials, 2015, 293, 54-63.	6.5	35
64	A combined kinetic and thermodynamic approach for interpreting the complex interactions during chloride volatilization of heavy metals in municipal solid waste fly ash. Waste Management, 2019, 87, 204-217.	3.7	35
65	Simultaneous Recovery of Benzene-Rich Oil and Metals by Steam Pyrolysis of Metal-Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlo	4.6	34
66	Sintering of Ceria-Doped Tetragonal Zirconia Crystallized in Organic Solvents, Water, and Air. Journal of the American Ceramic Society, 1992, 75, 552-556.	1.9	33
67	Ball Mill-Assisted Dechlorination of Flexible and Rigid Poly(vinyl chloride) in NaOH/EG Solution. Industrial & Engineering Chemistry Research, 2008, 47, 8619-8624.	1.8	33
68	Effects of steam on the thermal dehydrochlorination of poly(vinyl chloride) resin and flexible poly(vinyl chloride) under atmospheric pressure. Polymer Degradation and Stability, 2015, 117, 8-15.	2.7	33
69	Practical dechlorination of polyvinyl chloride wastes in NaOH/ethylene glycol using an up-scale ball mill reactor and validation by discrete element method simulations. Waste Management, 2019, 99, 31-41.	3.7	33
70	Dechlorination of poly(vinylidene chloride) in NaOH/ethylene glycol as a function of NaOH concentration, temperature, and solvent. Polymer Degradation and Stability, 2008, 93, 1979-1984.	2.7	32
71	Preparation and characterization of Mgâ€“Al layered double hydroxides intercalated with benzenesulfonate and benzenedisulfonate. Microporous and Mesoporous Materials, 2008, 114, 410-415.	2.2	32
72	Removal of hydrogen chloride from gaseous streams using magnesiumâ€“aluminum oxide. Chemosphere, 2008, 73, 844-847.	4.2	32

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73	Adsorption of Cu2+ and Ni2+ by tripolyphosphate-crosslinked chitosan-modified montmorillonite. Journal of Solid State Chemistry, 2019, 277, 143-148.	1.4	32
74	Latest Trends and Challenges in Feedstock Recycling of Polyolefinic Plastics. Journal of the Japan Petroleum Institute, 2020, 63, 345-364.	0.4	32
75	Dehydrochlorination behavior of a chloride ion-intercalated hydrotalcite-like compound during thermal decomposition. Applied Clay Science, 2007, 35, 173-179.	2.6	31
76	High Selective Conversion of Poly(ethylene terephthalate) into Oil Using Ca(OH)2. Chemistry Letters, 2004, 33, 282-283.	0.7	30
77	Alkaline hydrolysis of PVC-coated PET fibers for simultaneous recycling of PET and PVC. Journal of Material Cycles and Waste Management, 2018, 20, 439-449.	1.6	30
78	Simultaneous recovery of H2-rich syngas and removal of HCN during pyrolytic recycling of polyurethane by Ni/Mg/Al catalysts. Chemical Engineering Journal, 2019, 361, 408-415.	6.6	30
79	Close Packing of Cellulose and Chitosan in Regenerated Cellulose Fibers Improves Carbon Yield and Structural Properties of Respective Carbon Fibers. Biomacromolecules, 2020, 21, 4326-4335.	2.6	30
80	Lactic acid as a substrate for fermentative hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 16967-16973.	3.8	29
81	Removal of arsenic from an aqueous solution by coprecipitation with manganese oxide. Journal of Environmental Chemical Engineering, 2014, 2, 2045-2049.	3.3	29
82	Adsorption isotherms and kinetics of arsenic removal from aqueous solution by Mgâ€“Al layered double hydroxide intercalated with nitrate ions. Reaction Kinetics, Mechanisms and Catalysis, 2017, 120, 703-714.	0.8	29
83	Niâ€“Al layered double hydroxides modified with citrate, malate, and tartrate: Preparation by coprecipitation and uptake of Cu2+ from aqueous solution. Journal of Physics and Chemistry of Solids, 2011, 72, 846-851.	1.9	28
84	Preparation of Cuâ€“Al layered double hydroxide intercalated with ethylenediaminetetraacetate by coprecipitation and its uptake of rare earth ions from aqueous solution. Solid State Sciences, 2013, 17, 28-34.	1.5	28
85	A novel process for the removal of bromine from styrene polymers containing brominated flame retardant. Polymer Degradation and Stability, 2015, 112, 86-93.	2.7	28
86	Pyrolysis of sugarcane bagasse pretreated with sulfuric acid. Journal of the Energy Institute, 2019, 92, 1149-1157.	2.7	28
87	Beech Wood Pyrolysis in Polyethylene Melt as a Means of Enhancing Levoglucosan and Methoxyphenol Production. Scientific Reports, 2019, 9, 1955.	1.6	28
88	Temperature-dependent pyrolysis behavior of polyurethane elastomers with different hard- and soft-segment compositions. Journal of Analytical and Applied Pyrolysis, 2020, 145, 104754.	2.6	28
89	Photochemical Reduction of Nitrate to Ammonia Using Layered Hydrous Titanate/Cadmium Sulphide Nanocomposites. Journal of Chemical Technology and Biotechnology, 1996, 67, 345-349.	1.6	26
90	Impact of Common Plastics on Cellulose Pyrolysis. Energy & Fuels, 2019, 33, 6837-6841.	2.5	26

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91	A new strategy for CO₂ utilization with waste plastics: conversion of hydrogen carbonate into formate using polyvinyl chloride in water. Green Chemistry, 2020, 22, 352-358.	4.6	26
92	Removal of antimonate ions and simultaneous formation of a brandholzite-like compound from magnesiumâ€“aluminum oxide. Separation and Purification Technology, 2011, 80, 235-239.	3.9	25
93	Recovery of glass fibers from glass fiber reinforced plastics by pyrolysis. Journal of Material Cycles and Waste Management, 2013, 15, 122-128.	1.6	25
94	Pyrolysis versus hydrolysis behavior during steam decomposition of polyesters using ¹⁸O-labeled steam. RSC Advances, 2015, 5, 61828-61837.	1.7	25
95	Treatment of hydrochloric acid using Mgâ€“Al layered double hydroxide intercalated with carbonate. Journal of Industrial and Engineering Chemistry, 2016, 39, 21-26.	2.9	25
96	Temperature Dependence on the Activation Energy of Dechlorination in Thermal Degradation of Polyvinylchloride. Chemistry Letters, 2005, 34, 70-71.	0.7	24
97	Impact of brominated flame retardants on the thermal degradation of high-impact polystyrene. Polymer Degradation and Stability, 2013, 98, 306-315.	2.7	24
98	Latest Trends in Pyrolysis Gas Chromatography for Analytical and Applied Pyrolysis of Plastics. Analytical Sciences, 2021, 37, 145-157.	0.8	24
99	Preparation of Mgâ€“Al layered double hydroxides intercalated with alkyl sulfates and investigation of their capacity to take up N,N-dimethylaniline from aqueous solutions. Solid State Sciences, 2009, 11, 2060-2064.	1.5	23
100	Decomposition of Gaseous Terephthalic Acid in the Presence of CaO. Industrial & Engineering Chemistry Research, 2011, 50, 1831-1836.	1.8	23
101	Removal of toxic HCN and recovery of H2-rich syngas via catalytic reforming of product gas from gasification of polyimide over Ni/Mg/Al catalysts. Journal of Analytical and Applied Pyrolysis, 2017, 123, 330-339.	2.6	23
102	Diagnosing chlorine industrial metabolism by evaluating the potential of chlorine recovery from polyvinyl chloride wastesâ€”A case study in Japan. Resources, Conservation and Recycling, 2018, 133, 354-361.	5.3	23
103	Removal of tetrafluoroborate ion from aqueous solution using magnesiumâ€“aluminum oxide produced by the thermal decomposition of a hydrotalcite-like compound. Chemosphere, 2007, 69, 832-835.	4.2	22
104	Treatment of gaseous hydrogen chloride using Mgâˆ’Al layered double hydroxide intercalated with carbonate ion. Chemosphere, 2010, 81, 658-662.	4.2	22
105	Use of Mgâ€“Al oxide for boron removal from an aqueous solution in rotation: Kinetics and equilibrium studies. Journal of Environmental Management, 2016, 165, 280-285.	3.8	22
106	Separation of copper and polyvinyl chloride from thin waste electric cables: A combined PVC-swelling and centrifugal approach. Waste Management, 2019, 89, 27-36.	3.7	22
107	Metal recovery from wire scrap via a chloride volatilization process: Poly(vinyl chloride) derived chlorine as volatilization agent. Thermochimica Acta, 2013, 562, 65-69.	1.2	21
108	Lead removal from cathode ray tube glass by the action of calcium hydroxide and poly(vinyl chloride). Thermochimica Acta, 2014, 596, 49-55.	1.2	21

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109	Kinetics and equilibrium studies on Mgâ€“Al oxide for removal of fluoride in aqueous solution and its use in recycling. Journal of Environmental Management, 2015, 156, 252-256.	3.8	21
110	Simultaneous recovery of high-purity copper and polyvinyl chloride from thin electric cables by plasticizer extraction and ball milling. RSC Advances, 2018, 8, 6893-6903.	1.7	21
111	Impacts of Pyrolytic Interactions during the Co-pyrolysis of Biomass/Plastic: Synergies in Lignocellulose-Polyethylene System. Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy, 2019, 98, 202-219.	0.2	21
112	Kinetics of the dehydrochlorination of poly(vinyl chloride) in the presence of NaOH and various diols as solvents. Polymer Degradation and Stability, 2009, 94, 1595-1597.	2.7	20
113	Electrodialysis for NaCl/EG solution using ion-exchange membranes. Journal of Material Cycles and Waste Management, 2013, 15, 111-114.	1.6	20
114	Replacing conventional fuels in USA, Europe, and UK with plastic pyrolysis gases â€“ Part II: Multi-index interchangeability methods. Energy Conversion and Management, 2016, 126, 1128-1145.	4.4	20
115	Kinetic and equilibrium analyses of lactate adsorption by Cu-Al and Mg-Al layered double hydroxides (Cu-Al LDH and Mg-Al LDH) and Cu-Al and Mg-Al layered double oxides (Cu-Al LDO and Mg-Al LDO). Nano Structures Nano Objects, 2021, 25, 100656.	1.9	20
116	Efficient dehalogenation of automobile shredder residue in NaOH/ethylene glycol using a ball mill. Chemosphere, 2009, 74, 287-292.	4.2	19
117	Selective Uptake of Aromatic Compounds from Aqueous Solutions by Mgâ€“Al Layered Double Hydroxide Intercalated with 2,7-Naphthalenedisulfonate. Chemistry Letters, 2009, 38, 522-523.	0.7	19
118	Recovery of benzene-rich oil from the degradation of metal- and metal oxide-containing poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	19
119	Deducing targets of emerging technologies based on ex ante life cycle thinking: Case study on a chlorine recovery process for polyvinyl chloride wastes. Resources, Conservation and Recycling, 2019, 151, 104500.	5.3	19
120	Separation mechanism of polyvinyl chloride and copper components from swollen electric cables by mechanical agitation. Waste Management, 2019, 93, 54-62.	3.7	19
121	Enhancement of gasification and liquefaction during fast co-pyrolysis of cedar wood and polyethylene through control of synergistic interactions. Bioresource Technology Reports, 2020, 11, 100431.	1.5	19
122	Selective production of benzene and naphthalene from poly(butylene terephthalate) and poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 and Stability, 2006, 91, 1002-1009.	2.7	18
123	Dehydrochlorination of poly(vinyl chloride) with Ca(OH)2 in ethylene glycol and the effect of ball milling. Journal of Polymer Research, 2011, 18, 1687-1691.	1.2	18
124	Elucidation of the Mechanism of Reaction between S₂O₈^{2â€“}, Selenite and Mn²⁺ in Aqueous Solution and Limestone-Gypsum FGD Liquor. Environmental Science & Technology, 2013, 47, 11311-11317.	4.6	18
125	Treatment of Cr(VI) in aqueous solution by Niâ€“Al and Coâ€“Al layered double hydroxides: Equilibrium and kinetic studies. Journal of Water Process Engineering, 2015, 8, e75-e80.	2.6	18
126	Pyrolysis and hydrolysis behaviors during steam pyrolysis of polyimide. Journal of Analytical and Applied Pyrolysis, 2016, 120, 75-81.	2.6	18

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127	Uptake of Ni2+ and Cu2+ by Znâ€“Al layered double hydroxide intercalated with carboxymethyl-modified cyclodextrin: Equilibrium and kinetic studies. Materials Chemistry and Physics, 2019, 233, 288-295.	2.0	18
128	Treatment of HCl gas by cyclic use of Mgâ€“Al layered double hydroxide intercalated with CO32-. Atmospheric Pollution Research, 2020, 11, 290-295.	1.8	18
129	Preparation of organic acid anion-modified magnesium hydroxides by coprecipitation: A novel material for the uptake of heavy metal ions from aqueous solutions. Journal of Physics and Chemistry of Solids, 2009, 70, 1104-1108.	1.9	17
130	Chemical modification of flexible and rigid poly(vinyl chloride) by nucleophilic substitution with thiocyanate using a phase-transfer catalyst. Materials Chemistry and Physics, 2010, 124, 163-167.	2.0	17
131	Uptake of Nd³⁺ and Sr²⁺ by Liâ€“Al layered double hydroxide intercalated with triethylenetetramine-hexaacetic acid: kinetic and equilibrium studies. RSC Advances, 2015, 5, 79447-79455.	1.7	17
132	Uptake of Nd 3+ and Sr 2+ by Li Al layered double hydroxides intercalated with ethylenediaminetetraacetate. Materials Chemistry and Physics, 2016, 177, 8-11.	2.0	17
133	Enhanced production of phenol and debromination by co-pyrolysis of the non-metallic fraction of printed circuit boards and waste tires. Green Chemistry, 2021, 23, 6392-6404.	4.6	17
134	Uptake of benzenecarboxylate ions by magnesium aluminium oxides. Journal of Chemical Technology and Biotechnology, 1992, 55, 385-390.	1.6	16
135	Steam Pyrolysis of Polyimides: Effects of Steam on Raw Material Recovery. Environmental Science & Technology, 2015, 49, 13558-13565.	4.6	16
136	Effect of H2O2 on the treatment of NO and NO2 using a Mgâ€“Al oxide slurry. Chemosphere, 2015, 120, 378-382.	4.2	16
137	Hydrothermal synthesis of hardened diatomite-based adsorbents with analcime formation for methylene blue adsorption. RSC Advances, 2016, 6, 26765-26774.	1.7	16
138	Validation of a deplasticizerâ€“ball milling method for separating Cu and PVC from thin electric cables: A simulation and experimental approach. Waste Management, 2018, 82, 220-230.	3.7	16
139	Uptake of heavy metal cations by chitosan-modified montmorillonite: Kinetics and equilibrium studies. Materials Chemistry and Physics, 2019, 236, 121784.	2.0	16
140	Evolution of carbon nanostructure during pyrolysis of homogeneous chitosan-cellulose composite fibers. Carbon, 2021, 185, 27-38.	5.4	16
141	Synergistic effects during co-pyrolysis of milled wood lignin and polyolefins at the gas phase and liquid/solid phase contacting modes. Chemical Engineering Journal, 2022, 431, 134030.	6.6	16
142	Dehydrochlorination and recovery of hydrochloric acid by thermal treatment of a chloride ion-intercalated hydrotalcite-like compound. Applied Clay Science, 2007, 37, 215-219.	2.6	15
143	Preparation of Mgâ€“Al Layered Double Hydroxide Intercalated with 2,7-Naphthalene Disulfonate and Its Selective Uptake of Aromatic Compounds from Aqueous Solutions. Bulletin of the Chemical Society of Japan, 2009, 82, 1436-1440.	2.0	15
144	Upgrading of poly(vinyl chloride) by chemical modifications using sodium sulfide. Journal of Material Cycles and Waste Management, 2010, 12, 264-270.	1.6	15

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145	Improvement of the Benzene Yield During Pyrolysis of Terephthalic Acid Using a CaO Fixed-Bed Reactor. Industrial & Engineering Chemistry Research, 2011, 50, 6594-6600.	1.8	15
146	Hydrolytic degradation of poly(ethylene terephthalate) in a pyrolytic two step process to obtain benzene rich oil. Journal of Applied Polymer Science, 2011, 120, 3687-3694.	1.3	15
147	Mechanism and kinetics of aqueous boron removal using MgO. Journal of Water Process Engineering, 2018, 26, 237-241.	2.6	15
148	Mgâ^'Al layered double hydroxide intercalated with CO32â€“ and its recyclability for treatment of SO2. Applied Clay Science, 2019, 183, 105349.	2.6	15
149	Heavy metal removal from municipal solid waste fly ash through chloride volatilization using poly(vinyl chloride) as chlorinating agent. Journal of Material Cycles and Waste Management, 2020, 22, 1270-1283.	1.6	15
150	Combining pyrolysisâ€“two-dimensional gas chromatographyâ€“time-of-flight mass spectrometry with hierarchical cluster analysis for rapid identification of pyrolytic interactions: Case study of co-pyrolysis of PVC and biomass components. Chemical Engineering Research and Design, 2020, 143, 91-100.	2.7	15
151	Prediction of pyrolyzate yields by response surface methodology: A case study of cellulose and polyethylene co-pyrolysis. Bioresource Technology, 2021, 337, 125435.	4.8	15
152	Special Articles on Chemistry and Technology for Recycling Inorganic and Organic Materials. Oxidation of Poly(vinyl chloride) Powder by Molecular Oxygen in Alkaline Solutions at High Temperatures.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1992, 1992, 534-541.	0.1	14
153	Determination of Fluoride Using ion-selective Electrodes in the Presence of Aluminum. Analytical Sciences, 2009, 25, 1437-1443.	0.8	14
154	Effect of heating rate on the pyrolysis of high-impact polystyrene containing brominated flame retardants: fate of brominated flame retardants. Journal of Material Cycles and Waste Management, 2012, 14, 259-265.	1.6	14
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